

## Product datasheet for **RG234064**

### STK25 (NM\_001271977) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** STK25 (NM\_001271977) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** STK25  
**Synonyms:** SOK1; YSK1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG234064 representing NM\_001271977  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCACCTCCGGGATTTGCCAACAGCACTCTCGAGTGGACCCTGAGGAGCTCTTACCAAGCTCG  
ACCGCATTGGCAAGGGCTCGTTTGGGGAGGTCTACAAGGGCATCGATAACCACACAAAGGAGGTGGTGGC  
CATCAAGATCATCGACCTGGAGGAGGCCGAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCCTC  
AGTCAGTGGACAGCCCCACATCACCCGCTACTTTGGCTCTACCTAAAGAGCACCAGCTATGGATCA  
TCATGGAGTACCTGGGCGGGCTCAGCACTGGACTTGCTTAAACCAGGTCCTGGAGGAGACATACAT  
TGCCACGATCCTGCGGGAGATTCTGAAGGCCTGGATTATCTGCACTCCGAACGCAAGATCCACCGAGAC  
ATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGGACTTTGGGGTAGCAGGGC  
AGCTCACAGACACGCAGATTAAGAGGAACATTCGTGGGCACCCCTTCTGGATGGCACCTGAGGTCAT  
CAAGCAGTCGGCTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGCTGGCCAAG  
GGGAGCTCCAAACTCTGACCTCCACCCATGCGCGTCTGTTCTGATTCCAAAGAAGACCCACCCA  
CACTGGAGGGCCAGCACAGCAAGCCCTCAAGGAGTTCGTGGAGGCTGCCTCAACAAAGACCCCGATT  
CCGGCCACGGCCAAGGAGCTCCTGAAGCACAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCCTC  
ACGGAGCTCATCGACCGCTATAAGCGCTGGAAGTCAGAGGGCATGGCGAGGATCCAGCTGAGGAT  
CTGACATTGATGGCGAGGCGGAGGACGGGGAGCAGGGCCCATCTGGACGTTCCCCCTACCATCCGGCC  
GAGTCCACACAGCAAGCTTCACAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAG  
AGGCAGCCGAGGTCCCAGTGCCTGTCCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACA  
AGCAGAGCGGGGAGCGTGGGTGCGCTGGAGGAGCTGGAGAACGCCTTCAGCCTGGCCGAGGAGTCTTG  
CCCCGGCATCTCAGACAAGCTGATGGTGCACCTGGTGGAGCGAGTGCAGAGGTTTTCACACAACAGAAAC  
CACCTGACATCCACCCGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG234064 representing NM\_001271977  
 Red=Cloning site Green=Tags(s)

MAHLRGFANQHSRVDPEELFTKLDRIKGSFGEVYKIDNHTKEVVAIKIIDLEEADEIEDIQQEITVL  
 SQCDSPYITRYFGSYLKSTKLWIIMEYLGGSALDLLKPGLEETYIATILREILKGLDYLHSEKIHHRD  
 IKAANVLLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTFFWMAPEVIKQSAYDFKADIWSLGITAIELAK  
 GEPPNSDLHPMRVLFLLIPKNSPPTLEGQHSKPFKEVEACLNKDPRFRPTAKELLKHKFITRYTKKTSFL  
 TELIDRYKRWKSEHGEESSSDIDGEAEDGEQGPFIWTFPPTIRSPHSLKHKGTALHSSQKPAEPVK  
 RQPRSQCLSTLVRPVFGELKEKHQSGGSVGALEELNAFLAEESCPGISDKLMVHLVERVQRFSHNRN  
 HLTSTR

TRTRPLE – GFP Tag – V

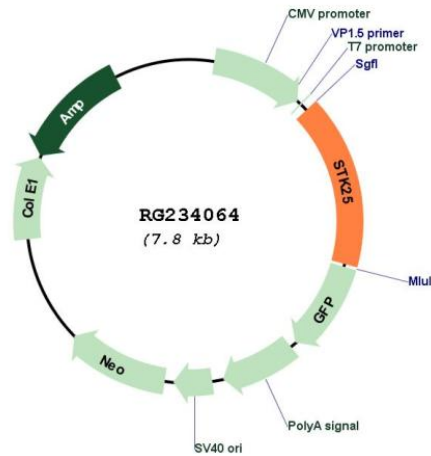
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001271977

<b>ORF Size:</b>	1278 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271977.2</a>
<b>RefSeq Size:</b>	2589 bp
<b>RefSeq ORF:</b>	1281 bp
<b>Locus ID:</b>	10494
<b>UniProt ID:</b>	<a href="#">O00506</a>
<b>Cytogenetics:</b>	2q37.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene encodes a member of the germinal centre kinase III (GCK III) subfamily of the sterile 20 superfamily of kinases. The encoded enzyme plays a role in serine-threonine liver kinase B1 (LKB1) signaling pathway to regulate neuronal polarization and morphology of the Golgi apparatus. The protein is translocated from the Golgi apparatus to the nucleus in response to chemical anoxia and plays a role in regulation of cell death. A pseudogene associated with this gene is located on chromosome 18. Multiple alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2012]